17(2,12)

sov/16-59-6-24/46

NEW TOTAL STREET HER PROPERTY OF THE PROPERTY

AUTHOR:

Shershevskaya, R.S.

TITLE:

The Variation in Shigella Shigae in the Process of Their Adaptation to

Antibiotics. Author's Summary.

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 6,

pp 117-118 (USSR)

ABSTRACT:

The author studied the variation of various strains of Shigella shigae in the course of their adaptation to the following antibiotics: synthomycin, levomycetin, streptomycin, erythromycin, biomycin, terramycin and tetracyclin. The morphological changes observed corresponded to those tetracyclin. The morphological changes observed corresponded to those noted by other researchers and were most marked in the tests with synthomycin, levomycetin, streptomycin and erythromycin. The changes in the cultural properties had to do with the nature of growth in liquid and on solid media (dwarf and sister colonies) and were most often noted in synthomycin-resistant strains. Changes in the biochemical properties were observed in adaptation to all the antibiotics and were expressed by retardation or loss of the power to ferment certain carbohydrates, and also mannitol and glycerine. As far as changes in the antigen properties of the strains were concerned, the adaptation process led to a drop in

Card 1/2

SOV/16-59-6-24/46

The Variation in Shigella Shigae in the Process of Their Adaptation to Antibiotics. Author's Summary.

agglutinability in a linear agglutination reaction with specific sera. Even more pronounced changes were noted in reactions with monoreceptor sera. The strains retained their newly-acquired antigen features for a year (period of observation) despite frequent passages on nutrient media containing streptomycin and terramycin. The virulency of the strains for white mice also diminished through adaptation.

ASSOCIATION: Khabarovskiy meditsinskiy institut (Khabarovsk Medical Institute)

SUBMITTED: April 15, 1958

Card 2/2

#### SHERSHEVSKAYA, R.S.

Crossed resistance of dysenteria bacteria to various antibiotics. Antibiotiki 5 no. 5:86-89 S-0 '60. (MIRA 13:10)

1. Kafedra mikrobiologii (zav. - prof. Ye.G. Livkina) Khabarovskogo meditsinskogo instituta.

(SHIGELLA) (ANTIBIOTICS)

Variability of dysenteric bacteria during the process of their adaptation to antibiotics. Trudy Khab.med.inst. no.20:35-37 '60.

(MIRA 15:10)

1. Iz kafedry mikrobiologii (zav. prof. Ye.G.Livkina) Khabarov-skogo meditsinskogo instituta.

(SHIGELIA) (ANTIBIOTICS)

Claracter VCD AYA, m. d.

Cand Med Sci - (liss, "atuay of the action of antibiotics on dysenteric bacterie." Khabarovsk, 1961. 24 pm; (Khabarovsk state Med Inst); 250 cobies; price not given; (KI, 7-61 sur, 267)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001549120009-0"

SHERSHEVSKAYA, R.S.

Antigenic variability of dysentery bacteria under the influence of antibiotics. Antibiotiki 9 nc.7:637-641 Jl 164.

(MIRA 18:3)

1. Kafedra mikrobiologii (zav. - prof. Ye.G. Livkina) Khabarov-skogo meditsinskogo instituta.

SHERDHFYSKAYA, S. F.

Cand Med Sci - (diss) "Action on the eye of intra-ocular fragments of several non-ferrous alloys. (Experimental study)." Stalin-grad,/1961 - inserted by translator, assumed as correct/. 21 pp; (Stalingrad State Med Inst); 200 copies; free; (KL, 6-61 sup, 242)

#### SHERSHEVSKAYA, S.F.

Peculiarities of the histomorphological reaction of eye tissues to intraocular fragments of some non-ferrous alloys. Oft.zhur.

15 no.1:10-14 60. (MIRA 13:5)

1. Iz eksperimental'noy laboratorii Stalinskogo instituta usovershenstvovaniya vrachey.

(KYE--FOREIGN BODIES)

Chalcosis in the presence of intraocular bronze fragments (experimental histochemical investigations. Vest. oft. 73 no. 2:3-7 Mr-Ap 160.

(MIRA 14:1)

(EYE-FOREIGN BODIES) (COPPER-TOXICOLOGY)

SHERSHEVSKAYA, Ye.Ia.

Anatomy of three species of Cyrpipedium. Bot. zhur. 48 no.ll: 1692-1696 N '63. (MIRA 17:4)

1. Tomskiy meditsinskiy institut.

SHERSHEVSKIY, A.M.; DULOV, A.V.

I.P. Merzheevskii in the medical council: Zhur. nevr. i psikh 59 no.3:
360-361 '59

1., Kafedra psikhiatrii (nachal'nik - prof. A.S. Chistovich) Voyennomeditsinskiy ordena Lenina akademii imeni S.M. Kirova.
(BIOGRAPHIES.

Merzhevskii, Ivan P. (Rns))

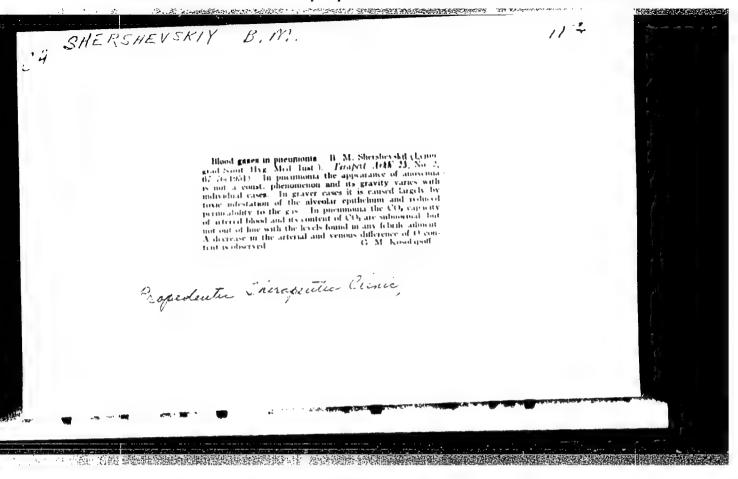
SHERSHEVSKIY, A.M.; GERSHKOVICH, B.Ya.; BUTENKO, L.I., red.; STEBINANKO, T.B., tekhn. red.

[Two worlds and two different courses; socialist and capitalist roads of the development of agriculture] Dva mira — dva puti; o sotsialisticheskom i kapitalisticheskom putiakh razvitia sel'skogo khoziaistva.

Stavropol', Stavropol'skoe knizhnoe izd-vo, 1960. 149 p.

(MIRA 14:11)

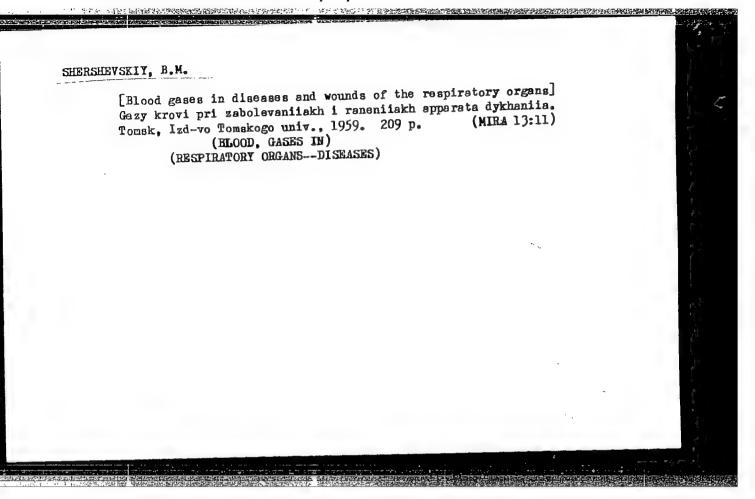
(Agriculture) (United States-Agriculture)

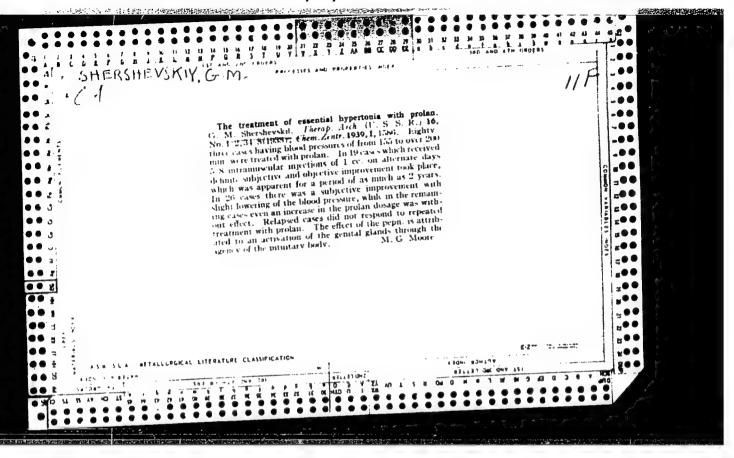


SHERSHEVSKIY, B. M.; AFANAS YEVA, Ye. K.

Role of massive bloodletting in the treatment of cardiac insufficiency. Klin. med., Moskva 29 no.7:38-43 July 1951.
(CIML 21:1)

1. Docent Shershevskiy. 2. Of the Propedeutic Therapeutic Clinic (Head -- Prof. S. M. Ryss), Leningrad Sanitary-Hygienic Medical Institute (Director -- Prof. D. A. Zhdanov, Corresponding Member of the Academy of Medical Sciences USSR).





SHERSHEVSKIY, G.M.

Treatment of hyperthyreosis with methyl thiouracil. Ter.

(CLML 20:11)

arkh. 23 no.3:47-51 May-June 1951.

1. Of the Therapeutic Clinic, Novosibirsk Institute for the Advanced Training of Physicians. 2. Prof. Shershevskiy.

The sugar tongue-test as a new method of study of carbohydrate metabolism in the clinic. G. M. Shershevskillhydrate metabolism in the clinic. G. M. Shershevskilltrap. Arkh. 27, No. 2, 78-36 (1900). This method permits the study of the effect of new carbonits the study of t

ALEKSEYEV, G.A., prof.; BAGDASAROV, A.A., prof.[deceased]; BEYYFR, V.A., prof.; VOCFALIK, V.G., prof.; DEMIDOVA, A.V., kand. med. nauk; DUL'TSIH, M.S., prof.; ZAKEZHEVSKIY, Ye.B., prof.; KONCHALOVSKAYA, N.M., prof.; KASSIRSKIY, I.A., prof.; KOST, Ye.A., prof.; LOGINOV, A.S., kand. med. nauk; NESTEROV, V.S., prof.; SHERSHEVSKIY, G.M., prof.; YANOVSKIY, D.N., prof.; MYASNIROV, A.L., prof., otv. red.; TAREYEV, Ye.M., prof., am. otv. red.; SHAPIRO, Ya.Ye., red.; LYUDKGVSKAYA, N.I., tekhn. red.

[Multivolume manual on internal diseases]Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Otv.red. A.L.Miasnikov. Moskva, Medgiz. Vol.6. [Diseases of the blood system and hemopoietic organs]Bolezni sistemy krovi i krovotvornykh organov. 1962. 700 p. (MIRA 15:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Bagdasarov, Myasnikov, Tareyev). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kassirskiy).

(BLOOD-DISEASES)

(HEMOPOIETIC SYSTEM\_DISEASES)

TO THE PROPERTY OF THE PROPERT SHERSHEVSKIY, M.G. Effect of iodine, estrogens and linocaine on ketone bodies in the blood in atherosclerosis before enting and after eating fats. (MIRA 11:4) Terap. arkh. 30 no.4:41-45 Ap '58. 1. Iz bol'nitsy No.23 v Stalinske (glavnyy vrach R.F. Uspenskaya) i terapevticheskoy kliniki (zav. klinikoy i konsul'tant bol'nitsy prof. G.M. Shershevskiy) Stalinskogo instituta usovershenstvovaniya vracheg (KETONE BODIES, in blood, in arteriosclerosis, eff. of estrogens, iodine & livocaine on preprandial level & changes after fatty meal (Rus) (ARTERIOSCIEROSIS, blood in, ketone bodies, eff. of estrogens, iodine & lipocaine, on preprandial level & on changes after fatty meal (Rus) (ESTROGENS, effects, on blood ketone bodies in arteriosclerosis before meal & after fatty load (Rus) (IODINE, effects, same) (LIPOCAIC, effects, mame)

SHERSHEVSKIY, M.G.

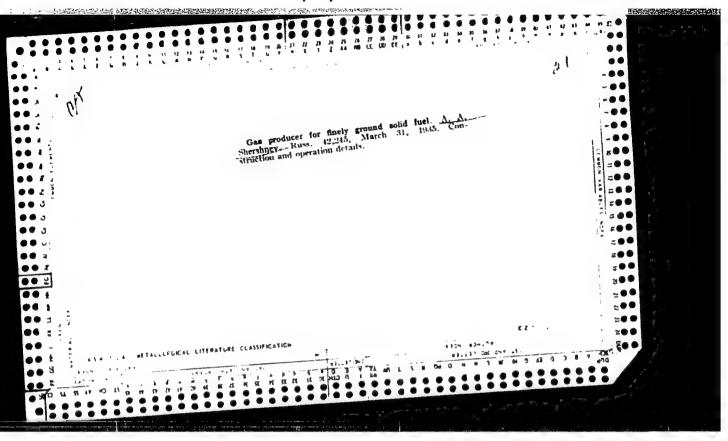
Influence of vitamin L<sub>12</sub> on fibrinolysis in atherosclerosis.

Terap. arkh. 35 no.2:56-60163. (MIRA 16:10)

1. Iz 2-y kafedry terapii (zav. G.A.Gol'dberg) Novokuznetskogo instituta usovershenstvovaniya vrachey (rektor G.L.Starkov).

(CYANOCOBALANITE) (ARTEIOSCLEROSIS)

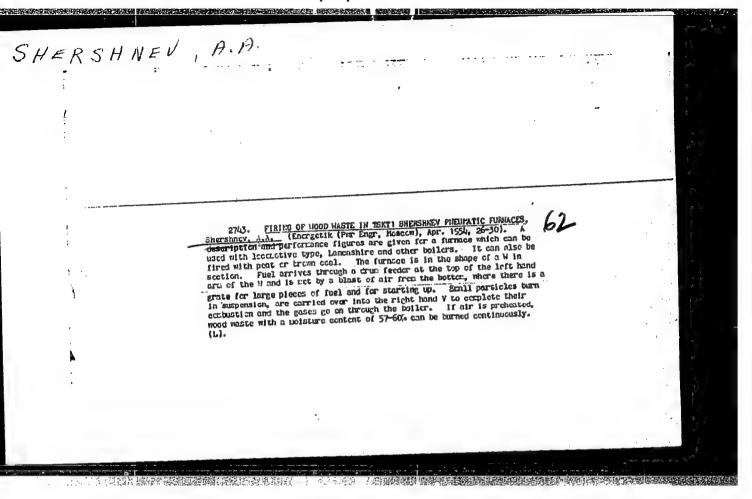
(FIERIEOLYSIS)



SHERSHNEV, A.A., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk;
PONSKATTSET, V.V., kandidat tekhnicheskikh nauk, retsenzent; BARSHTEYN,
I.K., kandidat tekhnicheskikh nauk, redaktor.

[Pneumatic furnaces for low-capacity boilers] Pnevmaticheskie topki
TaKTI sistemy Shershneva dlia kotlov maloi moshchnosti. Moskva, Gos.
TaKTI sistemy Shershneva dlia kotlov maloi moshchnosti. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 101 p.
(MLRA 7:6)

(Furnaces)



AID P - 2986

Subject

USSR/Electricity

Card 1/1

Pub. 29 - 1/28

Author

Shershnev, A. A., Kand. of Tech. Sci.

Title

Burning of Ukrainian lignites in pneumatic furnaces of the TsKTI (Central Scientific Research Institute

for Boilers and Turbines) Energetik, 6, 1-4, Je 1955

Abstract

Periodical

The author describes the characteristics of the Ukrainian lignites mined in Aleksandriya, Korostyshev and Zolochev and burned experimentally in the Klintsovo Plant and Steam Electric Power Station. The pneumatic furnaces used were of the Shershnev system and the two-drum boilers were of the NZL type. The author describes in detail the results obtained and concludes that they were satisfactory. Three drawings and

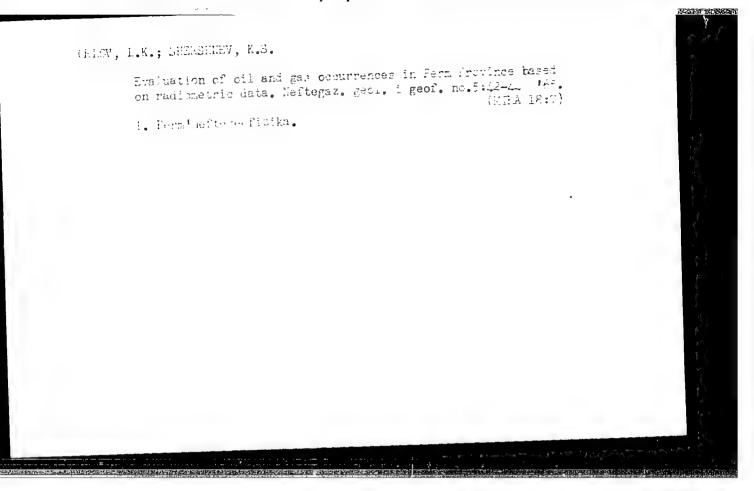
diagrams.

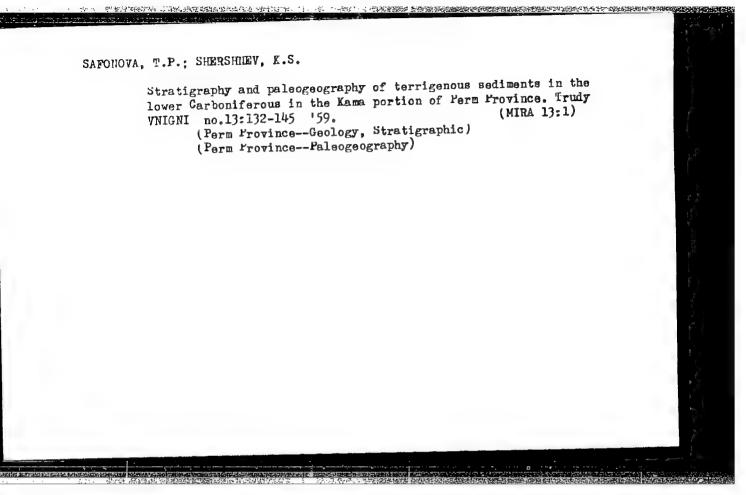
Institution :

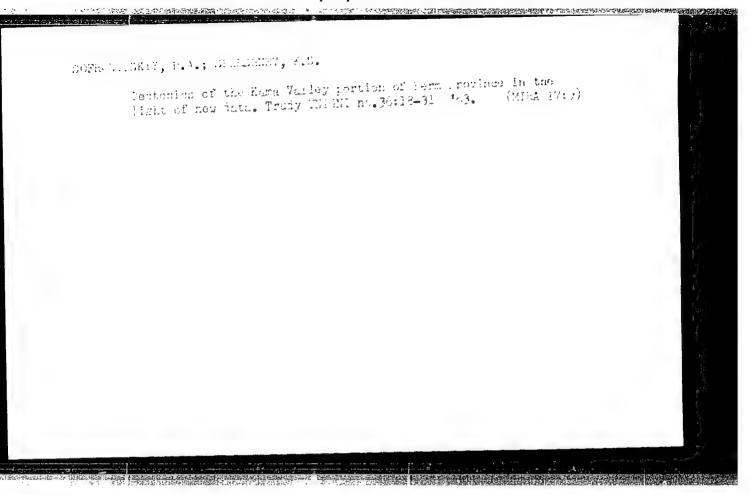
None

Submitted

No date







#### CIA-RDP86-00513R001549120009-0 "APPROVED FOR RELEASE: 07/13/2001

AUTHOR:

SHERSNEV.M.

42-5-14/17

TITLE:

Characterization of the Dimension of Metric Spaces by Continuous Mappings Into Euclidean Spaces (Kharakterizatsiya razmernosti metricheskikh prostranstv posredstvom nepreryvnykh

otobrazheniy v evklidovy prostranstva)

PERIODICAL: Uspekhi Mat. Nauk, 1957, Vol. 12, Nr.5, pp. 245-248 (USSR)

ABSTRACT:

Let R be an n-dimensional metric space and  $\boldsymbol{E}^{k}$  a k-dimensional

Euclidean space. Let C(R,En) be the space of all bounded

mappings of R into En.

Theorem: For every R and every  $k \le n$ , the set of all (n-k)dimensional mappings of R into En is everywhere dense in the

space  $C(R,E^n)$ .

Five Soviet references are quoted.

SUBMITTED: October 18, 1956

AVAILABLE: Library of Congress

1. Topology 2. Conformal mapping

Card 1/1

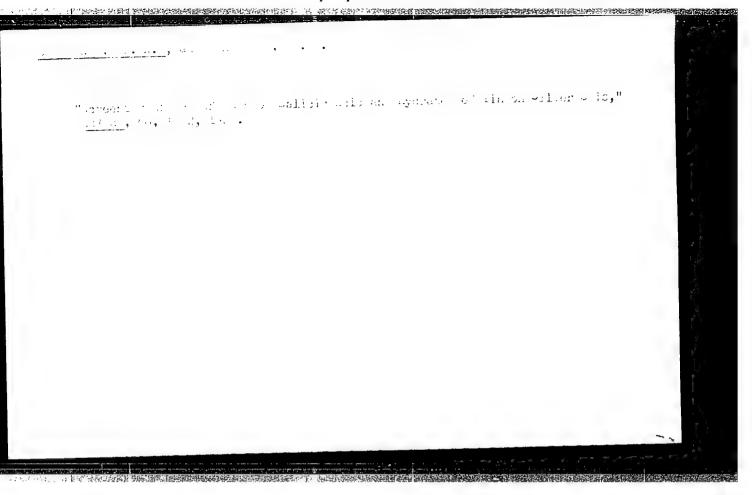
CIA-RDP86-00513R001549120009-0" APPROVED FOR RELEASE: 07/13/2001

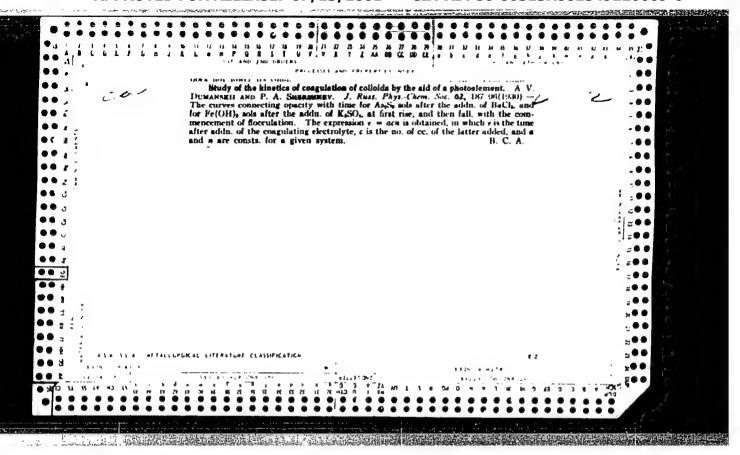
THE REPORT OF THE PROPERTY OF

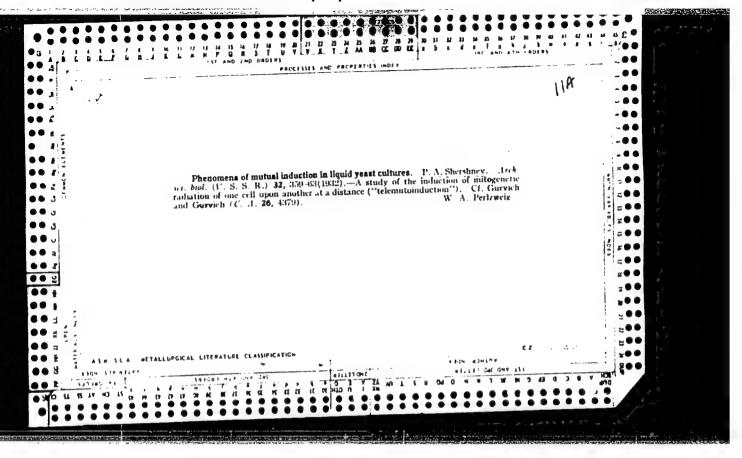
TATUMIN, A.T., nauchn. sotr.; MANILOVA, R.Z., nauchn. sotr.; ROVNYY, A.A., nauchn. sotr. Prinimali uchastiye: KOZ'MIN, Yu.G.; RAYNEN, Z.V.; SHERY AKIN, O.S.; BELOGOLOVYY, A.A.; KHARO, Ye.N.; SHERSHNEV, N.N.; NEKLEPAYEVA, Z.A., red.

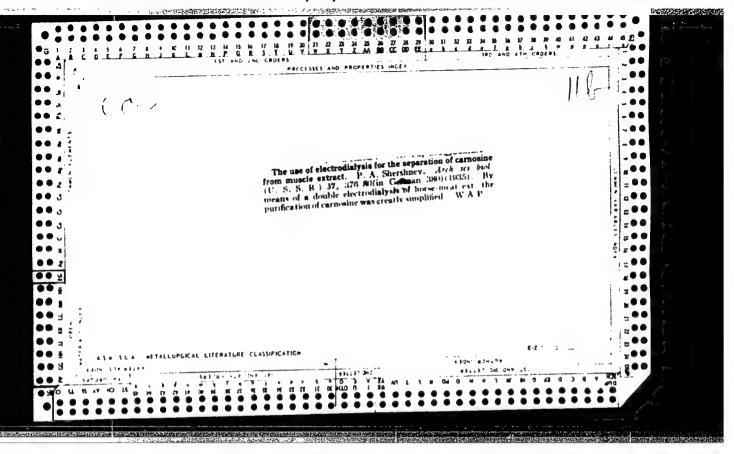
[Guide for the determination of the load capacity of metal spans of railroad bridges] Rukovodstvo po opredeleniiu gruzopod"emnosti metallicheskikh proletnykh stroenii zheleznodorozhnykh mostov. Moskva, Transport, 1965. 255 p. (MIRA 18:10)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i sooruzheniy. 2. Nauchno-issledovatel'skiy institut mostov Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Tatunin, Manilova, Rovnyy,







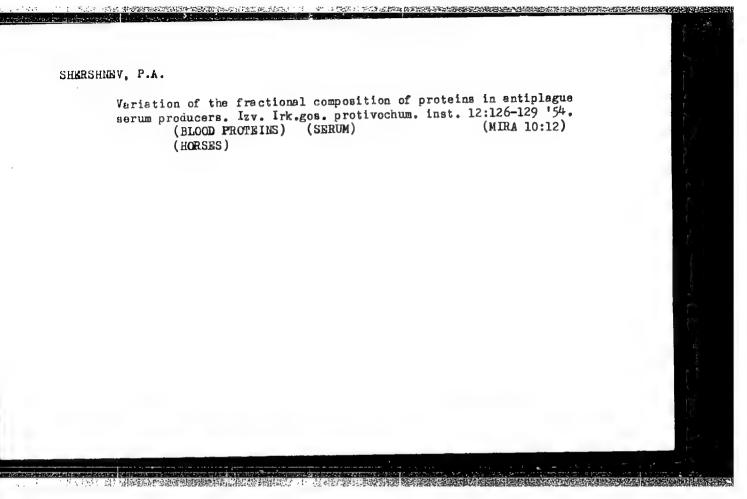


SHERSHNEV, P.A.

Using animal membranes in dialysis and concentration of serume; from laboratory practice. Izv. Irk.gos.protivochum. inst. 9:87-90 '51. (MIRA 10:12)

1. Iz syvorotochnogo otdela (zav. L.Ye.Khundanov) Irkutskogo gosudarstvennogo nauchno-issledovatel¹skogo protivochumnogo instituta (direktor - N.D.Altareva)

(DIALYSIS) (SKRUM)



SHIRSHWAV, P.A.; SHKURMO, Ye.D.; LYASKOVSKAYA, Ye.I.; KHUNDANOV, L.Ye.

Purification and concentration of antiplegue sers with neutral salts.

Tez.i dokl.konf.Irk.gos.nauch.-issl.protivochum.inst. no.1:45-46

155. (MIRA 11:3)

(PLAGUE) (SLRUM)

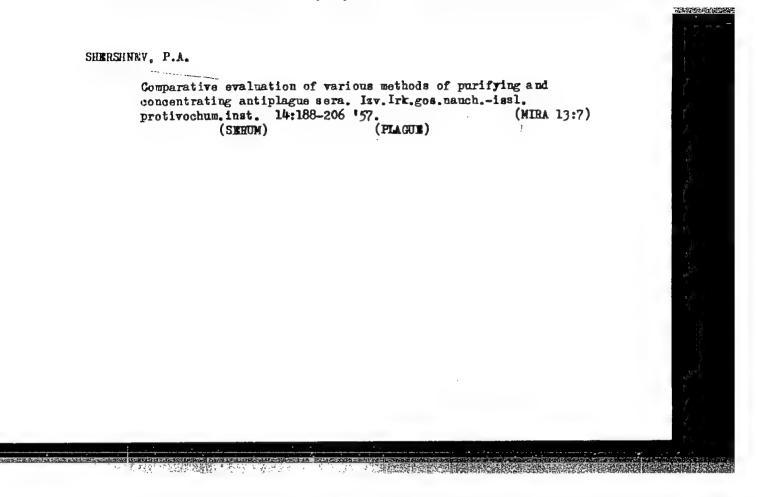
KHUMDANOV, L.Ye.; SIERSHIEV, P.A.; SHKURKO, Ye.D.; KALMYKOVA, A.P.;

TOKAREVA, A.A.; MIKHAIBVA, V.Ya.; LYASKOVSKAYA, Ye.I.

Therapeutic and prophylactic properties of separate protein fractions of plague serum. Tex. 1 dokl.konf.Irk.gos.nauch.-issl.protivochum.

inst. no.2:69-70 '57.

(SERUM) (PLAGUE) (PROTEIRS)



evaluation of various methods of purifying and concentration of antiputation where." Irkutsk, 1958, 17 pm. One sneet of tables (Min of Health RSFSR. Permission State Med Inst)

- 17 -

TOKAREVA, A.A.: SHERSHNEV, P.A.

Some remakers on a method for the paper electrophoresis of blood proteins. Izv.Irk.gos.nauch.-issl.protivochum.inst. 18:15-23 (MIRA 13:7)

(PAPER ELECTROPHORESIS) (BLOOD PROTEINS)

SHERSHNEV, P.A.; TOKAREVA, A.A.; KALMIKOVA, A.P.; SHKURKO, Ye.D.;
EHUNDANOV, L.Te.

Study of protein fractions of antiplage sera, Izv.Irk.gos.
nauch.-issl.protivochum.inst. 18:25-31 '58. (MIRA 13:7)
(BLOOD PROTEINS) (PLAGUE)

KHUNDANOV, L.Ye.; SHERSHNEV, P.A. SHKURKO, Ye.D.; KALMYKOVA, A.P.;
TOKAREVA, A.A.; LYASKOVSKAYA, Ye.I.; MIRHALEVA, V.Ya.

Therapeutic and prophylactic properties of individual protein fractions of antiplague serum. Izv.Irk.gos.nauch.-issl.protive-chum.inst. 18:33-41 158.

(BLOOD PROTEINS) (PLAGUE)

(BLOOD PROTEINS) (PLAGUE)

KHUNDANOV, L.Ye., SHERSHBEY, P.A., SHKURKO, Ye.D., KAIMYKOVA, A.P.,
TOKARRVA, A.A., LYASKOVSKAYA, Ye.I. MIRHALRYA, V.Ya.

Therapeutic and preventive properties of separate protein fractions
of anti-lague serum. Zhur.mikrobiol.epid. i immun. 29 no.7:55 Jl'58
(MIRA 11:8)

1. Iz Irkutskogo nauchno-issledovatel'skogo instituta Ministerstva
zdavookhraneniya SSSR.
(PLAGUE, immunology,
ther. & prev. properties of beta & gamma globulins in
immune sera (Rus))
(GAMMA GLOBULIN.
in anti-plague serum, ther. & prev. properties (Rus))

的是是不是不够的表现的是,我们们并不是可能的感染。而且,但是这些多一个是否的感染。 第15章

NIKITIN, A.I., prof., otv.red.; DOBYCHIN, B.D., prof., zam.otv.red.;

ABRAMOV, K.T., kand.med.nauk, red.; KAZANTSEV, A.I., prof.,

red.; TIMOFEYEV, S.I., prof., red.; KHODOS, Kh.B., prof., red.;

BOLOTOV, M.P., prof., red.; SHERSHNEV, P.A., prof., red.;

VAYS, S.I., prof., red.; KLIMOV, K.A., dotsent, red.; SEMENOV,

V.V., dotsent, red.; DONSKOV, V.V., dotsent, red.; KARNAKOV,

B.I., dotsent, red.; KRAKAU, S.I., red.

[Collection of works of the Irkutsk State Medical Institute devoted to its 40th anniversary] Sbornik trudov Irkutskogo gosudarstvennogo meditsinskogo instituta, posviashchennyi 40-letiiu so dnia ego osnovaniia. Irkutsk, 1959. 442 p. (MIRA 14:1)

1. Russia (1917- R.S.F.S.R.) Ministerstvo zdarvookhraneniya.
2. Zaveduyushchiy kafedroy normal'noy fiziologii Irkutskogo meditsinskogo instituta (for Nikitin). 3. Zaveduyushchiy fakul'itskogo khirurgicheskoy klinikoy Irkutskogo gosudarstvennogo meditsinskogo instituta (for Dobychin).4. Zaveduyushchiy kafedroy biokhimii Irkutskogo meditsinskogo instituta (for Shershnev). 5. Zaveduyushchiy kafedroy propedevtiki vnutrennikh bolezney Irkutskogo meditsinskogo instituta (for Karnakov).

(MEDICINE)

SOV/16-59-9-37/47 17(2,3)AUTHOR: Shershnev. P.A. The Purification and Concentration of Plague Antisera by Using TITLE: Magnesium Sulfate Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, PERIODICAL: Nr 9, pp 131 (USSR) An attempt was made to purify and concentrate plague antisera ABSTRACT: by using magnesium sulfate. To this end the albumin fraction was removed from the sera by precipitating the globulins with crystalline 70% magnesium sulfate with subsequent hydrodialysis. The purified antisera were tested and found to have increased their gamma-globulin content to 60 - 70% and decreased their ballast protein content (albumins) to 5 - 6%. The purified sera caused a lesser anaphylactic effect than crude sera and their pyrogenicity did not exceed established norms. The efficacy of the serum was more than tripled and the dose needed Card 1/2 for treatment could therefore be cut.

SOV/16-59-9-37/47

The Purification and Concentration of Plague Antisera by Using Magnesium Sulfate

ASSOCIATION: Irkutskiy nauchno-issledovatel'skiy institut Ministerstva zdra-

vookhraneniya SSSR (Research Institute of the Ministry of Public

Health of the USSR, Irkutsk)

SUBMITTED: May 20, 1958

Card 2/2

HIEITH, A.I., prof., otv. red.; EOETCHIN, B.D., prof., zam. otv. red.;
ABRAMOV, K.T., dots., red.; KAZANTSEV, A.I., prof., red.;
'IMOFEYEV, S.I., prof., red.; KHODOS, Kh.B., prof., red.;
LOLOTOV, M.P., prof., red.; SHEMSHMEV, F.A., prof., red.; VAYS,
S.I., prof., red.; KLIMOV, K.A., dots., red.; SEMENOV, V.V., dots.,
red.; KARMAKOV, B.I., dots., red.;

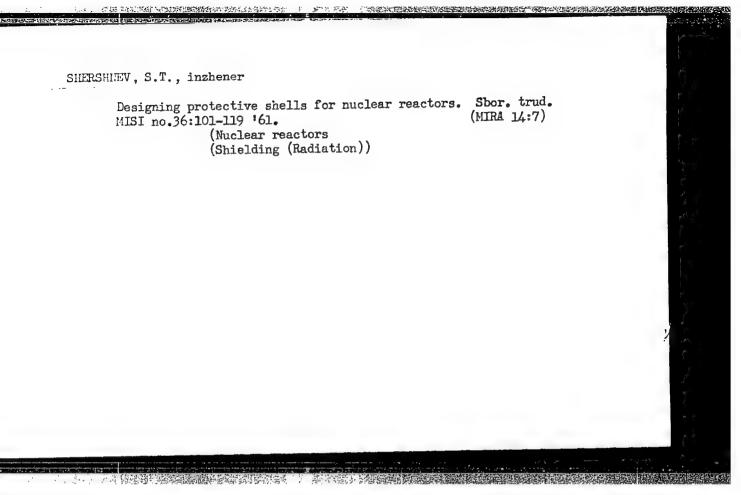
[haterials on the influence of physical, chemical and biological factors on the animal and human organism] haterially o vliianii fizicheskikh, khimicheskikh i biologicheskikh faktorov na organity zhivotnykh i cheloveka. Irkutsk, 1961. 317 p. (MIRA 15:12)

l. Irkutsk, Gosudarstvennyy meditsinskiy institut. 2. Zaveduyushchiy kafedroy terupevticheskoy storatologii Irkutskogo meditsinskogo instituta (for Vays). 3. Zaveduyushchiy kafedroy fakul'tetskoy khirurgii Irkutskogo meditsinskogo instituta (for Dobychin). 4. Zaveduyushchiy kafedroy infektsionnykh bolezney Irkutskogo meditsinskogo instituta (for Karnakov). 5. Zaveduyushchiy kafedroy normal'noy fiziologii Irkutskogo meditsinskogo instituta (for Mikitin).

(PHYSIOLOGY, FATHOLOGICAL)

DOMAPADSKIY, I.V.; MAKAROVA, L.K.; AZARGINOVA, F.S.; SHCHEKUNOVA, Z.I.;
SHERSHNEV, F.A.

Immunological effectiveness of a lysed cholera vaccine. Dokl.
Irk. gos. nauch.-issl. protivochum. inst. no.5t61-66 163
(MIRA 18:1)



\$/124/62/000/005/046/048 D251/D308

211675

Shershnev, S.T.

TITLE:

AUTHOR:

Calculating the protecting shells of nuclear reactors

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 5, 1962, 14,

abstract 5 V86 (Sb. Tr. Mosk. inzh.-stroit. in-t, 1961,

no. 36, 101-119)

TIME: A short description is given of the reasons for breakdown and a calculation of the strength of the protecting shells of nuclear reactors. The generally-known differential equations and the relationships of the momental theory of thin shells is described. The stress component in shells built in the form of surfaces with positive Gaussian curvature are divided into two groups: 1) A local stress with a large coefficient of variation and 2) a tangential or momentless component; for such shells a method is indicated of finding the forces, moments and deformations. An example is given of the calculation of a nuclear reactor's protecting shell which has the form of a hemisphere and is supported by hinges on the contour. 4 references. [Abstractor's note: Complete translation] Card 1/1

'A"THOR: - Shershnev, V. A. SOV/138-58-11-10/14

Determination of Thiuram and its Conversion Products by Conductiometric Titration (Opredeleniye tiurama

i produktov jego prevrashcheniya metodom kondukto-

metricheskogo titrovaniya)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 11, pp 33 - 34 (USSR)

ABSTRACT: Conductiometric titration is used for determining vulcanisation accelerators, especially thiurams. Scheele et al. (Refs. 1 and 2) did not describe the apparatus

they used for these investigations. The author used Scheele's method. A Wheatstone bridge with a telephone or

galvanometer was used (Fig.1). Three coils of 5000, 500 and 100 ohms were used instead of a slide wire. The A.C. galvanometer VG was used as zero-instrument. A beaker was used as electrolytic cell in which the platinum wire electrodes were submerged. The solution is added dropwise through an opening in the lid and the beaker is shaken. Tetramethyl thiuram disulphide

was titrated in a 0.1 N CuSO<sub>4</sub> solution in the presence of hydroquinom and dithiocarbamates in a 0.1 N HCl solution. Titration curves are shown in Fig. 2. Scheele et

Cardl/3 al. recommended to titrate in water-acetone solutions

SOV/138-58-11-10/14

Determination of Thiuram and its Conversion Products by Conductic-metric Titration

at 40°C. The authors found, however, that an 3% error occurred at this temperature which could be decreased to 2 - 3% at 25°C. Results of these experiments are tabulated (Table 1 and 2). A formula for the qualitative calculation of the analysed substances is given. Details of a simultaneous titration of zinc dithiocarbamate and thiuram in the same test tube are described. This method was also used for the determination of thiuram and zinc dithiocarbamate in vulcanisation extracts. It was found that when the vulcanisation process lasted for a considerable time, free thiuram was decomposed during the extraction process. Vulcanisates of natural rubber containing stearic acid were also analysed. The stearic acid decomposes part of the zinc dithiocarbamate and it is possible that dimethylamine stearate is formed. In a different experiment it was found that the test was not affected when phenyl-P-naphthylamine was added as antiageing agent. The co-operation of B. A. Dogadkin and

Card2/3

SOV/138-58-11-10/14
Determination of Thiuram and its Conversion Products by Conductionmetric Titration

A. V. Dobromyslova is acknowledged. There are 2 Tables, 2 Figures and 3 References: 2 German and 1 Soviet.

ASSOCIATION: Moskovs'tiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (The Moscov Institute for Chemical Precision Technology, im. M.V. Lomonosov)

Card 3/3

AUTHOR: Dogadkin, B.A., Shershnev, V.A.

69-20-1-20/20

TITLE:

The Action of Metallic Oxides in the Vulcanization of Rubber by Tetramethylthiuram Disulfide (Deystviye okislov metallov pri vulkanizatsii kauchuka tetrametiltiuramdisul'fidom)

PERIODICAL: Kolloidnyy Zhurnal, 1958, Vol XX, # 1, pp 124-127 (USSR)

ABSTRACT:

In the article, the vulcanization of rubber at 143°C and 100 atm is investigated. The interaction of tetramethylthiuram disulfide with rubber under these conditions leads to its reduction of dimethylthiocarbamic acid, which, with zinc, becomes zinc dithiocarbamate. Figure 1 shows that in the process of vulcanization, part of the sulfur is separated again from the rubber. This separation is caused by the formation of volatile products. In the presence of zinc oxide, the formation of volatile products is considerably reduced. The stable zinc salt causes increased structurization and a fall in the effect of reversal of vulcanization.

Card 1/2

There are 4 figures, 1 table, and 6 references, 5 of which

are Soviet, 1 German.

SHERSHNEV, V. A., Candidate Chem Sci (diss) -- "Investigation of the process of vulcanizing rubber with tetramethyl thiuram disulfide without elemental sulfur". Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Inst of Fine Chem Tech im M. V. Lomonosev), 150 copies (KL, No 23, 1959, 161)

DOGADKIN, B.A.; SHERSHEV, V.A.

Reaction of tetramethylthiuram disulfide with rubber and with compounds containing a labile hydrogen atom. Vysokom.sosd. 1 (MIRA 12:9)

no.1:53-67 Ja '59.

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova. (Disulfide) (Rubber)

BRESLER, S.Ye.: DOGADKIN, B.A.; KAZBEKOV, E.N.; SAMINSKIY, Ye.M.;
SIERSINEV, V.A.

On the article by B.A.Dogadkin and V.A.Sherchnev "The reaction of totramethylthiuram disulfide with rubber and with compounds possessing a labile hydrogen atom." Vysokom.soed. 2 no.1:174

Ja '60.

(Rubber) (Vulcanization) (Thiuram disulfide)

(Dogadkin, B.A.) (Shershnev, V.A.)

#### CIA-RDP86-00513R001549120009-0 "APPROVED FOR RELEASE: 07/13/2001

SOV/69-21-2-20/22

THE THILD POST AND A THIRD PARTY OF THE PROPERTY OF THE PROPER

AUTHORDE

Dogadkin, B.A., Shershnev, Y.A.

TITLE:

5 (4)

On the Interaction of Tetramethylthiuram Disulfide and Tetramethylthiuram Monosulfide With Rubber (O vzaimodeystvii tetrametiltiuramdisul'fida i tetrametiltiurammonosul'fida s

kauchukom)

PERIODICAL:

Kolloidnyy zhurnal, 1959, Nr 2, pp 244-245 (USSR)

ABSTRACT:

In order to clarify the character of interaction between rubber and tetramethylthiuram disulfide (TMTD) and tetramethylthiuram monosulfide (TMTM), the authors investigated electronic paramagnetic resonance spectra during the heating process of mixtures of rubber with TMTD and TMTM. The mixtures were premared on micro-rolls in an argon medium and placed into quartz ampules, which were heated immediately in the resonator (in argon, vacuum or air). At the heating of all mixtures (140%), unique spectra appeared (see graph 2), the least intensive in the mixture with TMTM. This shows that the interaction mechanism of TMTD and TMTM

Card 1/2

with rubber, probably is common, whereas the kinetic

JOV/69-21-2-20/22

On the Interaction of Tetramethylthiuram Disulfide and Tetramethylthiuram Monosulfide With Rubber.

characteristics differ considerably. This is proved by the reaction of TMTD and TMTM with geraniol, which can be considered as a model of the structural units of natural rubber. At the heating of the mixtures TMTD and TMTM with geraniol, and also at their treatment with ultraviolet rays in a quartz ampule at room temperature, they acquire a unique red-orange coloring, the intensity of which increases more slowly in mixtures with TMTM. The facts set forth by the author permittures with TMTM. The facts set forth by the author permit the conclusion, that TMTM and TMTD interact with rubber through a stage of free radicals, and disintegrate according to the bonds G - S and S - S. There are 2 graphs and 7 references, 2 of which are Soviet, 3 German and 2 English.

ASSOCIATION:

Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova (Moscow Institute of Fine Chemical Technology

imeni M.V. Lomonosov)

SUBMITTED:

September 3, 1958

Card 2/2

Reversion Phenomena in the Vulcanization of Rubber With Tetramethylthiuramdisulfide

S/190/60/002/004/006/020 B004/B056

rubber or SKI-rubber was vulcanized with tetramethylthiuramdisulfide without metallic oxides or in the presence of magnesium- or calcium oxides (Table 1). In this case, the dimethyldithiocarbamic acid decomposes into hydrogen sulfide and dimethylamine. Although this decomposition was observed also in argon, no reversion occurred. In the presence of ZnO, reversion occurs neither in air nor in argon, because the dimethyldithiocarbamic acid is bound as zinc salt. Zinc increases also the stability of the vulcanizate to aging (Table 2). The authors explain the reversion of rubber vulcanization by destructive oxidation processes which are intensified by the decomposition products of dimethyldithiocarbamic acid, but are prevented by the binding of this acid with zinc. There are 3 figures, 2 tables, and 3 references: 1 Soviet.

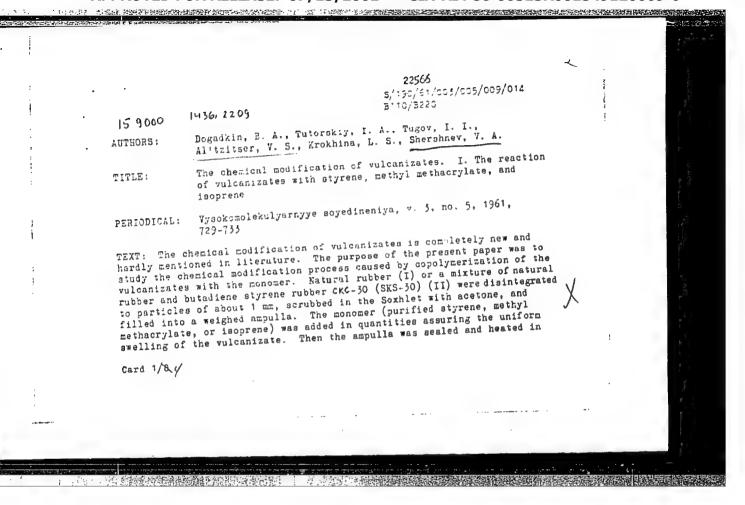
ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.

M. V. Lomonosova (Moscow Institute of Fine Chemical

Technology imeni M. V. Lomonosov)

SUBMITTED. December 24, 1959

Card 2/2



22566 S/130/61/003/005/003/014 B110/B220

The chemical...

an oil thermostat. Conversion of monomer and yield in graft polymer were determined by weight. The product of copolymerization was extracted with the hot solvent of the formed homopolymer: methyl ethyl ketone for polystyrene, acetone for polymethyl methacrylate, benzene for polysoprene. In order to initiate the copolymerization process the vulcanizates were exchized first of all in a suspension of CCl<sub>4</sub> to introduce functional (probably peroxide) groups. One has made use of the exchizer developed

(probably peroxide) groups. One has made use of the ozonizer developed by the Kafedra gazovoy elektrokhimii MGU im. Lomonosova (Department for Gas Electrochemistry of the Moscow State University imeni Lomonosov). The experimental temperatures were: 60, 100, 110, 150, and 180°C. The curves of kinetic copolymerization of non-ozonized I and II are represented in Figs. 2a and 6. In case the vulcanizate had been ozonized previously, a large fraction of the isopiene added polymerized already at 60°C. A considerable part of the polymerized isopiene forms with the vulcanizate a graft polymer (Fig. 6). Also for the copolymerization of methyl methacrylate with vulcanizate, its previous czonizing raises the reaction rate and yield in graft polymer (Fig. 7). The active centers of the rutber existing in the vulcanizate (double bonds and α-methylene groups)

Card 2/8 4

22566 S, 190, A1, 203, 205, 209, 2014 B110, B221

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The chemical ...

are able to act as branching points in the chain of the trimeric polymer and, thus, form the graft polymer. Moreover, the initial polymerization may be effected by exygen-containing groups existing on the surface of the crushed vilcanizate. The surface increase effected by absorption of monomers on the crushed polymerizate also accelerates the reaction. When polymerizing the non-coonized vulcanizates with styrene at 150-180°C, the polymerization reaches its maximum already after the first 2 to 3 hr and then remains constant, since the thermopolymerization of styrene is practically completed. With a decrease in temperature of polymerization the yield in copolymers increases as compared to the total monomer polymerized. Yu. M. Yemel'yanov assisted in the experiments. There are 7 figures and 8 references: 3 Soviet-bloc and 5 non-Soviet-bloc. The two references to English-language publications read as follows:
Ref. 1: R. I. Ceresa, W. F. Watson, Trans. and Proceed 35, 19, 1959.
Ref. 4: I. Green, E. F. Sverdrup, Industr. and Engag. Chem. 48, 2138, 1956.

Card 3/8,4

22566 5/130/61/003/005/009/014 5110/8220

The chemical ...

ASSOCIATION: Moskovskiy institut tenkoy khimicheskoy tekhnologii im.
Lemonosovi (Mossow Institute of Fine Chemical Technology
imeni Lomonosov) Vsesoyuznyy nauchno-issledovatel'skiy
institut plenochnykh materialov i iskusstvennoy kozhi
(All-Union Scientific Research Institute of Film Materials

and Artificial Leather)

SUBMITTED:

July 25, 1960

Fig. 2: kinetics of consymerization: Legend: a) Vulcanizate of natural rubber with styrene; 5) vulcanizate of natural + SKC-30 rubber with styrene. Full-line surves = styrene conversion; broken-line curves = yield in graft polystyrene. Temperature of polymerization: 1) = 110°C; 2) = 150°C; 3) = 180°C. c) time of polymerization, hr.

Card 4/8 4

## "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120009-0

26231 3/074/61/030, 005/002/002 B117/3226

15 9170

AUTHORS: Dogadkin, B. A., and Shershnev, V. A.

AUTHORS: Dogadkin, D. a.,
TITLE: Vulcanization of rubbers in the presence of organic accelera-

TITLE: vuice tors

PERIODICAL: Uspekhi khimii, v. 30, no. 8, 1961, 1013 - 1049

TEXT: The present paper was written to complete the survey by D. Craig (Ref. 1: Rubb. Chem. Techn., 30, 1291 (1957)) in which the Soviet, German, and Japanese papers of the last ten years were not considered. When studying the vulcanization the following problems were dealt with: Elementary chemical reactions of vulcanization, mode of action of the accelerators, nature of vulcanization structures and their effect upon the physicotomical properties of the vulcanization product. For solving these chemical properties of the vulcanization products and physical methods problems both special chemical-analytical procedures and physical methods problems both special chemical-analytical procedures and physical methods are used. viz., the optical and electron spectroscopy, isotopic exchange are used. viz., the optical and electron spectroscopy, isotopic exchange and kinetic studies by radioactive sulfur. Notable results could be oband kinetic studies by radioactive sulfur. Some of the authors exmodel compounds. Two kinds of studies were made: Some of the authors exmodel compounds. Two kinds of studies were made: Some of the authors ex-

Card 1/3

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120009-0

5/074/61/030/008/002/002 B117/B226

Vulcanization of rubbers in ...

plained the structural changes of rubber during vulcanization mainly by the radical processes. Other scientists consider the elementary reactions as proceeding according to a polar (ionic) mechanism. The different opinions on the vulcanization mechanism do not permit a uniform conception of this complex phenomenon. The reaction mechanism depends on various factors: On the thermodynamic reaction conditions, on the rubber type, and, especially, on the types of accelerator and activator. At present, several vulcanization systems are used: (a) Vulcanization with di- and polysulfides which comprises the following methods: Vulcanization with di-2-benzothiazyl disulfide; vulcanization with sulfur in the presence of di-2-benzothiazyl disulfide; vulcanization with thiuram disulfides; vulcanization with sulfur in the presence of thiuram disulfides and dithio carbamates. (b) Vulcanization in the presence of mercapto-benzothiazole. (c) Vulcanization in the presence of sulfonamides. (d) Vulcanization in the presence of organic bases. Furthermore, papers are discussed which concern the following problems: Effect of binary sytems of vulcanization accelerators; structure and activity of vulcanization accelerators; effect of the rubber structure upon its vulcanizability; the part played by vulcanization activators; crosslinking (vulcanization) of rubber solutions at low temperatures; re-

Card 2/3

262**81** \$/074/61/030/008/002/002 B117/B226

Vulcanization of rubbers in ...

versibility and the optimum of vulcanization; vulcanization structures and their effect upon the static and dynamic properties and the fatigue of vulcanization products. The following authors are mentioned: S. Ye. Bresler, I. A. Tutorskiy, G. A. Blokh, Ye. N. Gur'yanova, I. Beniska, E. N. Belyayeva, Z. N. Tarasova, A. S. Kuz'minskiy. There are 22 figures, 2 tables, and 112 references: 57 Soviet and 55 non-Soviet. The three most important references to English-language publications read as follows: Ref. 1: D. Craig, Rubb. Chem. Tehn., 30, 1291 (1957); J. R. Shelton, E. T. McDonel, Lecture at the International Conference on Caoutchouc and Resin, Washington, November 9 - 14, 1959; L. Bateman, R. W. Glasebrook, C. G. Moore, M. Porter, G. W. Ross, R. W. Sawille. Rub. Chem. Techn., 31, 1055 (1958).

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. nomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

Card 3/3

- KFR/EFF(c)/EWP(j)/EWT(m) S/0138/ ACCESSION NR: AP3001594 AUTHOR: Shershnev, V. A.; Ginsburg, L. V.; Dogadkin, B. A. TITLE: Kinetics of vulcanized rubber structuration by phenol-formaldehyde | derivates SOURCE: Kauchuk i rezina, no. 5, 1963, 20-23 TOPIC TAGS: kinetics of structuration, vulcanized rubber, phenol-formaldehyde ABSTRACT: The study was conducted on natural rubber as well as on synthetic rubbers SKS-30-AM and SKS-30-1, bwhich were heated with rolling at 160 and 1800 with 2,6-dimethylol-4-butylphenol and the resin 101, a p-butylphenol-formaldehyde oligomer. Two types of mixtures were used, each containing 12% of resin 101, while only one of them contained 3% of stannous chloride. The resulting products were characterized by low break test values, especially in the absence of stannous chloride. In another series of experiments, 12, 3, and 1 parts of 2,6-dimethylol-4-butylphenol and 3% stannous chloride were added to natural rubber under similar conditions. These produced vulcanized rubbers of a higher break test, as compared with resin 101, which was not adversely affected by Card 1/2

L 12684-63 ACCESSION NR: AP3001594

2

aging. The authors conclude that the effectiveness of a vulcanizing agent may be related to the number of methylol groups contained therein, which are responsible for the formation of cross links. Orig. art. has: 3 charts and 2 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonsova (Moscow Institute of Advanced Chemical Technology)

SUBMITTED: 00

DATE ACQ: OSJul63

ENCL: 00

SUB CODE: 00

NO REF SOV: OOA

OTHER: 006

Cara 2/2

SHEPSHNEV, V.A.; GINZBURG, L.V.; DOGADKIN, B.A.

Behavior in the stretching of natural rubber vulcanizates with p-tert-butyldimethylolphenol. Koll.zhur. 25 no.5:626-627 S-0 (MIRA 16:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.

GINZBURG, L.V.; SHERSHNEV, V.A.; DOGADKIN, B.A.

Interaction of 2,6-dimethylol-4-tert-butylphenol with unsaturated elastomers. Dokl. AN SSSR 152 no.2:335-337 S '63. (MIRA 16:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. Predstavleno akademikom A.A. Balandinym.

L 19612-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/EWA(h)/EWA(1) Pc-li/Pr-li/Pu-li/Peb GG/RM/MLK
ACCESSION NR: AT4049862 S/0000/64/000/000/0233/0236

AUTHOR: Dogadkin, B.A., Shershnev, V.A., Boyarchuk, Yu. M., Dudenkova, S.V.

TITLE: The problem of the role of metal oxides in the vulcanization of rubber in the presence of tetramethylthiuramdisulfide

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 233-236

TOPIC TAGS: metal oxide, rubber vulcanization, tetramethylthiuramdisulfide, free radical reaction, radiation yield, transverse bond

ABSTRACT: An attempt was/made to track the course of free-radical reactions during irradiation of natural rubber and to clarify the role in these processes of additions of tetramethylthiuramdisulfide (TMTD) and metal oxides. The addition of TMTD increased the radiation yield of radicals per 100 ev from 0.6 to 1.3, which may be explained by the transfer of energy during irradiation; the number of transverse bonds per 100 ev increased from 0.9 to 1.1. Oxides of Zn and Bi decreased the yield to 0.4, but raised the number of transverse bonds to 3.2 and 3.7, in the presence of TMTD, the numbers were 3.2 and 3.7, respectively. In the presence of TMTD, MgO and NiO have practically no

Card 1/2

#### "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120009-0

L 19612-65 ACCESSION NR: AT4049862

3

effect on the radiation yield, while MgO, in addition, does not affect formation of transverse bonds. The largest number of transverse bonds forms in the systems rubber + TMTD+ZnO and rubber + TMTD + Bi<sub>2</sub>O<sub>3</sub> and the smallest - in the systems with additions of NiO and CdO (in comparison with the system rubber + TMTD). The additions of NiO and CdO (in comparison with the system rubber, with and without different effect of metal oxides on the radiation cross-linking of rubber, with and without TMTD, can be related to their effect on the reactions of free radicals which determine the cross-linking of the rubber molecules. "The authors are grateful to N. Ya. Buben for the opportunity to conduct the work."

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosava, (Moscow Institute of Fine Chemical Technology) Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

SUBMITTED: 16Feb63

ENCL: 00

SUB CODE: MT

NO REF SOV: 007

OTHER: 002

Card 2/2

# "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120009-0

WW/RM Pc-4/Pr-4/Ps-4 S/0138/65/000/001/0009/0012 EAT(m)/EPF(c)/EPR/EMP(j)/T 25264-65 ACCESSION NR: AP5002920 AUTHOR: Ginzburg, L.V.; Shvarts, A.G.; Shershnev, V.A.; Dogadkin, B.A. with alkylphenol-formaldehyde resin TITLE: Vulcanization of carboxylated rubber SOURCE: Kauchuk i rezina, no. 1, 1965, 9-12 TOPIC TAGS: vulcanization, carboxylated rubber, synthetic rubber, phenol formaldehyde resin, alkylphenol polymer, butadiene styrene rubber, methacrylate copolymer, vulcanizate crosslinking, vulcanizate mechanical property, metal oxide, thiuram, oxide filler ABSTRACT: Vulcanization of SKA-30-1, a carboxylated 70:30 butadiene-styrene copolymer with 1.25% methacrylic acid, was studied with alkylphenol-formaldehyde resin as a vulcanizer in the presence and absence of zinc or magnesium oxides to define the effect of the metal oxides on crosslinking and on the mechanical properties and fatigue strength of vulcanizates. Vulcanizates, prepared with 8% resin and 3% magnesium or zinc oxide, without or with admixture of 2% stearic acid, 50% carbon black, KhAF 10% oil extender without or with admixture of 2% stearic acid, 50% carbon black, KhAF 10% oil extender SNP-6, 1% paraffin wax and 2% rosin, were tested for cross-linking by swelling tests and for elasticity, tensile strength, relative elongation and strength after multiple deformation. Vulcanizates with "thiuram" and vulcanizates of SKS-30ARK (modified, 70:30 butadienestyrene, copolymerized at 5C with rosin soap emulsifier obtained under similar conditions  $Card^{1/2}$ 

L 25264-65

ACCESSION NR: AP5002920

2

were also tested. Alkylphenol-formaldehyde resin was shown to have good activity as a curing agent of carboxylated butadiene-styrene rubber, particularly in the presence of zinc oxide. Magnesium oxide decreased the crosslinking effect. The filled and resincured SKS-30-1 had better physical-mechanical properties than thiuram-cured rubber and particularly higher resistance to wear and fatigue. The resin-vulcanized SKS-30-1 rubber showed also less tendency to scorching than conventional SKS-30-1 tire tread mixture and approximately equal physical-mechanical properties. Orig. art. has: 3 figures and 4 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova (Moscow fine-chemical technology institute); Nauchno-issledovatel'nyy institut shinnoy promyshlennosti (Tire industry scientific research institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 005

OTHER: 002

Card 2/2

	31 25 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A 1 8 A
	7 - 7
L 13099-65 ENT(m)/EPF(c)/EPR/ENP(j)/T Pc-11/Pr-11/Ps-11 RPL WW/RM  ACCESSION NR: AP5008365  AUTHORS: Al'tzitser, V. S.: Gul', V. Ye.: Tutorskiy, I. A.; Shershnev, V. A.;  Dogadkin, B. A.  TITLE: Copolymerization of ozonated pulverized vulcanizers with polyacrylate esters.	L. L. Sour
TITLE: Copolymerization of Ozonasta 7 7 70. 3. 1965, 417-419	
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 3, 1965, 417-419  TOPIC TAGS: rubber, copolymerization, ozone, vulcanizer, resin/ SKI vulcanizer, NK vulcanizer, SKS 30 ARM vulcanizer, SKB vulcanizer, SKD vulcanizer  ABSTRACT: This article, the third of the series "Chemical Modification of Vulcanizers," presents data from an investigation of the interaction between ozonated canizers," presents data from an investigation of the interaction between ozonated pulverized vulcanizers and polyacrylate esters. Vulcanizers SKI, NK, SKS-30 ARM, 15 pulverized vulcanizers and polyacrylate esters. Figure 1 shows the amount of SKB, and SKD, and polyester resin MGF-9, were tested. Figure 1 shows the amount of peroxides formed by ozone and various vulcanizers. These peroxide groups, though stable at room temperature, readily decompose upon heating, and apparently form free radicals, initiating polymerization. Heating of ozonized pulverized vulcanizers radicals, initiating polymerization. Heating of ozonized pulverized vulcanizers radicals, initiating polymerization. Heating of the mixture. Modified products formed with polyester resin causes the hardening of the mixture. Modified products formed during the latter process show properties common to both substances, the elastic vulcanized rubber, and the oil-, gasoline-, and heat-resistant polyacrylate ester.	
Card 1/5	14.

L 13099-65
ACCESSION NR: AP5008365

The authors postulate that the vulcanizate particles are bound chemically with the polyacrylate ester molecules, forming a composite three-dimensional polymer structure. Orig. art. has: 3 figures.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology)

SUBMITTED: O6May64 ENCL: 01 SUB CODE: OC, MT

NO REF SOV: 003 OTHER: 000

Wilcenization of carboxyl-containing rubber with alkylphenolformaldehyde resin. Kauch.i rez. 24 no.1:9-12 Ja '55.

(MIRA 18:3)

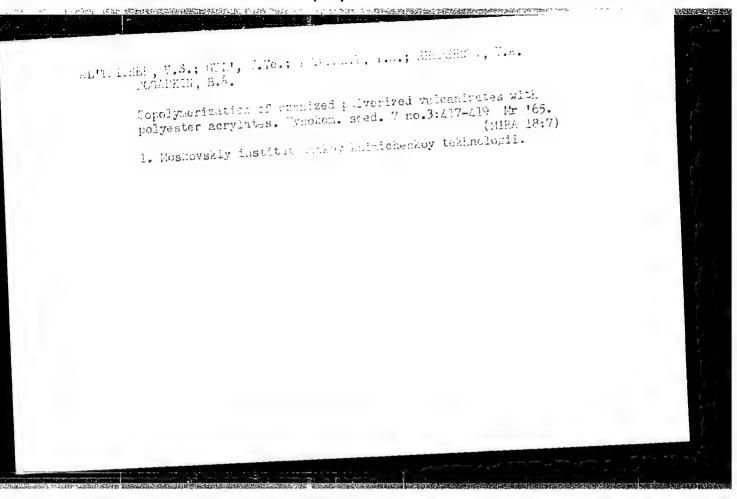
1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im.
M.V.Lomonosova i Nauchno-issledovatel'skiy institut shinnoy
promyshlennosti.

# "APPROVED FOR RELEASE: 07/13/2001

# CIA-RDP86-00513R001549120009-0

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56672-65 EWT(m)/EWP(j) Pc-li- CESSION NR: AP5017842	- RM	UR/02867657000 678.043:547.41	7011/00/8/00/ 2.74		
			15		
THOR: Shershnev, V. A.; Sidnev	V. A.; Dogadkin,	B. A.	B.		
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OPIC TAGS: rubber vulcanization abstract: This Author's Certificing polyhalide compounds. Volating and the same are eliminated by using a same are aliminated as a same are aliminated by using a same are aliminated by using a same are aliminated as a same are aliminated as a same are aliminated as a same are aliminated are aliminated as a same are aliminated as a same ar	, thiourea	ethod for vulo	anizing rubbe	r us- ing rea.	
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Pc-4/Pr-4 EWT(m)/EPF(c)/EWP(j) L 56671-65 UR/0286/65/000/011/0079/0079 ACCESSION NR: AP5017844 678.7.028.294.044 : 547.563.3 B AUTHOR: Ginzburg, L. V.; Shershnev, V. A.; Shvarts, A. G.; Dogadkin, B. A Neratova, T. N. A method for vulcanizing rubber. Class 39, No. 171570 TITLE: SOURCE: Byulleten' lzobreteniy i tovarnykh znakov, no. 11, 1965, 79 TOPIC TAGS: rubber vulcanization, vulcanization acceleration ABSTRACT: This Author's Certificate introduces a method for vulcanizing rubber using alkylphenolformaldehyde resins in the presence of accelerators of halidecontaining organic substances. The vulcanization process is intensified by using 2,6-dibromodimethyl-4-tert-butylphenol as the halide-containing organic substance. ASSOCIATION: none SUB CODE: SUBMITTED: 19Mar64 ENCL: OTHER: 000 NO REF SOV: 000 Card 1/1 /8 2\_\_\_



EWP(1)/EWT(m) ACC NR: AF6007855 SOURCE CODE: UR/0138/66/000/002/0015/0018 AUTHOR: Sidney, V. A.; Anupyl'd, O. L.; Dogadkin, B. A.; Shershney, V. A. QRG: Institute of Fine Chemical Technology im. M. V. Lomonosov, Moscow (Moskovskiy) institut tonkoy khimicheskoy tekhnologii) TITLE: Crosslinking of caoutchouc by polyhalide compounds of the aliphatic series SOURCE: Kauchuk i rezina, no. 2, 1966, 15-18 TOPIC TAGS: rubber heat resistance, vulcanization, organic synthetic process ABSTRACT: The use of hexachlorethane and 1,1,1.5-tetrachloropentane as vulcanizing agents made it possible to produce heat-resistant vulcanized rubber having high physico-mechanical properties. The molegular compound of hexachloroethane with tetrachloropentane (15:85), called vulkaton (SSSR Patent no. 165300; of 23 Sept 1963), and combination of tetrachloropentane with DFG (5 and 2 parts by weight respectively) were the most efficient vulcanizing substances. Both chemical and salt crosslinkages were formed during vulcanizing caoutchouc SKS-30-1 With tetrachloropentane. Vulcanization was practically absent at temperatures ≤153C. An addition into the mixture of a small amount of DFG or an increase of temperature to 163C accelerated the vulcanization considerably. Similar results were obtained for caoutchouc of other types. Cross-Card 1/2 UDC: 678.7:678.028:547:412.13

ACC NR: AF6007855

linking in caoutchuk SKS-30-1 was not affected by 1,1.5 trichloropentane-1. (product of the debydrochlorization of tetrachloropentane). A. N. Nesmeyanov et al. (Usp. khim., 25, vyp. 6, 665, 1956) showed that tetrachloroalkane had a tendency toward debydrochlorization while forming trichloroalkanes. Therefore, the vulcanizing of chloroalkanes was related to the presence in them of trichloromethyl groups. The fact that N and Cl did not link with caoutchouc during vulcanizing by tetrachloropentane with VFG and that the trichloroalkanes did not vulcanize suggested that vulcanization was related to the liberation of HCl from the tetrachloropentane. Orig. art. has;
3 fig.

SUB CODE: 07,11/ SUBM DATE: 28Oct64/ ORIG REF: 007/ OTH REF: 003

EWT(m)/EWP(j)...IJP(c) L 24483-66 RM ACC NR: AP6006988 SOURCE CODE: UR/0190/66/008/002/0357/0360 AUTHORS: Ginzburg, L. V.; Shvarts, A. G.; Shershnev, V. A.; Neratova, T. N. ORG: Moscow Institute of Fine Chemicals Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii) TITLE: Vulcanization of rubber with products of hydrohalogenation of phenol dimethylol derivatives SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 357-360 TOPIC TAGS: vulcanization, rubber, chemical reaction kinetics, tracer study ABSTRACT: Vulcanization of rubber with 2, 6-dibromodimethyl-4-tert-butylphenol (I) and 2, 6-dichlorodimethyl-4-tert-butylphenol (II) was investigated. It was hoped that the reactivity of I and II would prove high enough to make the use of accelerators unnecessary. Compounds I (m.p. 71C) and II (m.p. 68C) were synthesized by passing the corresponding hydrogen halide through a solution of 2,6-dimethylol-4-tert-butylphenol in glacial acetic acid. The kinetics of vulcanization was investigated by using labeling techniques. It was established that the process of vulcanization occurs in two stages: 1) addition, and 2) formation of cross-links. Card 1/2 -678.01:54+678.41

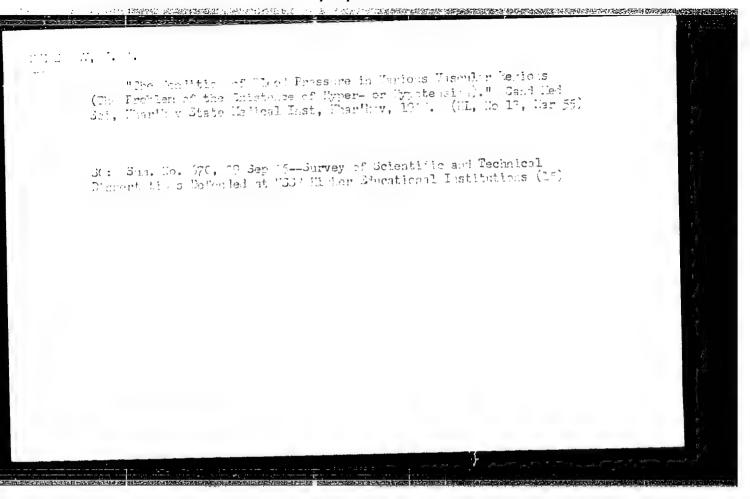
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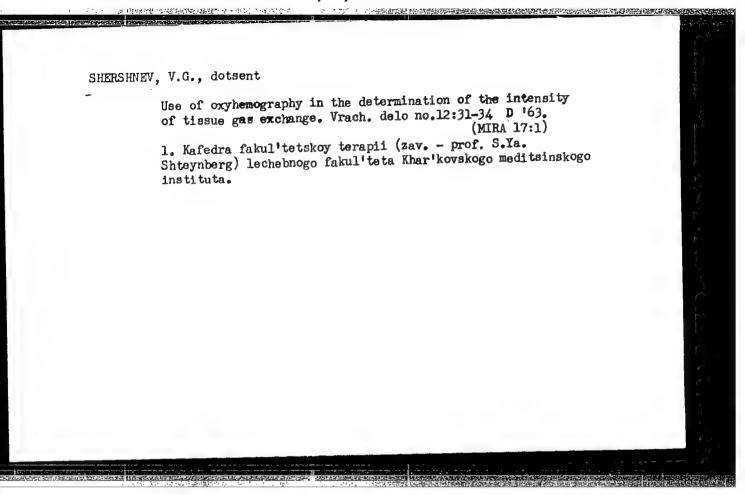
THE ART THE STATE OF THE STATE

CHERSHNEY, V.G., DUBINGKIY, A.A.

"Some Data on the Distribution of Radiophosphorus in the Blood of Patients who have been Treated with this Preparation" p. 264, in the book Experience in the Use of Radioactive Isotopes in Medicine R. Ye. KAVETSKIY and I.T. SHEVCHENKO, publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of conference held in KIEV from 18-20 January 1954.

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AUTHORS:

Balats, D.S., Shershnev, V.P., Morozov, I.L., Engineers

TITLE:

Increasing the Wear Resistance of the Bearing Settings in the Frames of Face Machines (Povysheniye iznosostoykosti posadochnykh mest pod podshipniki v korpusakh zaboynykh mashin)

PERIODICAL:

Mashinostroitel', 1958, Nr 6, pp 19-20 (USSR)

ABSTRACT:

The worn bearing-settings in face machines were repaired formerly in the following way: a 5-mm layer of the metal was removed, and then new metal fused-on by means of the TsM-7 electrodes. This new metal is then machined. The process of repairing the setting in this way is very difficult. In the Rutchenkovsk Plant imeni N.S. Krushchëv two apparatuses (Figure 2-3) were developed: a floating reamer and a floating roller. The repair process is now carried out in the following way: electric fusing on the worn surface; rough boring with an allowance of 0.15-0.25 mm; clean boring (with the reamer) with an allowance of 0.01-0.25 mm; finishing by means of the special floating roller. This method is used for repairing settings under the bearings with a diameter of 90-220 mm. The

Card 1/2

SHERSHNEV, Yevgeniy Grigor'yevich; PANKOVA, V.M., redaktor; KIRSANOVA, N.A., tekhnicheskiy redaktor

[Resources of the entire organized group] Silami vsego kollektiva.
[Moskva] Izd-vo VTsSPS Profizdat, 1956. 39 p. (MIRA 9:10)

 Master Moskvoskogo zavoda imeni Vladimira Il'icha. (Efficiency, Industrial)

SHERSHIEV, Yevgeniy Sergeyevich; CHISTOV. V.V., red.; KAKHOVSKAYA, O.G., red.izd-va; GURKIN, V., tekhn.red.

[Economy and foreign trade of the Federal Republic of Germany]
Federativnaia Respublika Germanii; ekonomika i vneshniaia
torgovlia. Moskva, Vneshtorgizdat, 1960. 183 p.
(MIRA 14:2)

(Germany, West--Economic conditions)

LUKASHFVICH, G.I [Lukashevych, H.I.], kand. tekhn. nauk; SHERSHNEV, Ye.S. [Shershn'ov, IE.S.]; SKVARIK, V.P. [Skvaryk, V.P.], kand. tekhn. nauk

Ways to lengthen the service life and improve the reliability of machinery in light industries. Leh. prom. no.1:28-32 Ja-Mr '65.

(MIRA 18:4)

TRUKHANOVSKIY, D.S.; SHERSHNEVA, A.I.

Cultivation of the Amur cork tree by seed. Biul. Inst. biol.
(MIRA 15:3)

AN BSSR no.6:49-55 '61.
(WHITE RUSSIA—AMUR CORK TREE)

SHERSHOVE, I. N., IS N.

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AUTHORS:

Ris, V.F., Den, G.N., Candidates of Technical Sciences,

Shershneva, A.N., Engineer

TITLE:

The effect of flow on the runner of the centrifugal stage

PERIODICAL: Energomashinostroyeniye, no. 4, 1963, 14 - 17

TEXT: The authors analyze a force system which is applied to the runner of single-stage centrifugal force pumps with a shell located immediately behind the runner. They point out that such a layout of the shell results inevitably in a disturbance of the axial symmetry of flow, which can be confirmed by a simple qualitative analysis of the flow in the shell. Calculating the stress acting on the runner in the absence of an axial symmetry of flow round the wheel and the pressure changes near the runner along the periphery and radius, the authors present appropriate formulae and experiment, all data characterizing the aerodynamic stress acting on the runner. There are 6 figures and 1 table.

Card 1/1

